



SERVICE & WARRANTY RECORD

1 YEAR WARRANTY
100,000 KMS
**SERVICE CONDITIONS APPLY*

ADVANCED **TRANSPORT REFRIGERATION & AIRCONDITIONING**



warranty details

Subject to such other conditions, warranties and/or undertakings which may from time to time by virtue of the Trade Practices Act, 1984 (as amended) and any other legislation conferring rights and remedies to consumers of goods or services in law under the Laws of Australia and /or any applicable State or Territory thereof, Advanced Transport Refrigeration and Air Conditioning hereinafter called ATR warranties this Refrigeration Unit against mechanical defect and faulty material for a period of 1 year from the date of installation or for the time until the motor vehicle in which it is installed shall have travelled 100,000 kilometres, whichever first occurs (hereinafter called the warranty period) subject to exclusions and conditions hereinafter set out.

THE WARRANTY PERIOD CAN BE EXTENDED TO A TOTAL OF 3 YEARS / 100,000 KMS, PROVIDED SCHEDULED SERVICING IS CARRIED OUT BY ATR AS REQUIRED BY THE SERVICE SCHEDULE. THE TOTAL WARRANTY IS LIMITED TO 3 YEARS or 100,000 KM, WHICHEVER OCCURS FIRST.

The warranty is void unless the following conditions are satisfied:

- The installation details must be completed as directed on the ATR warranty card and produced when a claim is made. For the warranty to be valid, the warranty registration card must be correctly completed.
- All services pursuant to this warranty are to be carried out by ATR.
- If the refrigeration unit is damaged due to collision, the repair must be carried out by ATR, or all warranties are void.
- All maintenance as specified must be carried out and recorded in this booklet.
- A 3 month inspection (after installation) to be carried out by ATR, FREE of CHARGE.

EXCLUSIONS

Excluded from this warranty are:

- Failure resulting from mis-use, negligence, modification, accident, use of parts not approved by ATR or lack of performance of required maintenance services.
- It is the responsibility of the OWNER to ensure that proper maintenance is performed in accordance with the maintenance schedule contained in the back of this booklet.
- Service charges relating to the adjustment of the compressor drive belt and thermostat (incorrectly tensioned belts will not qualify for replacement).
- Refrigerant hoses damaged by battery acid.
- Loss of time or other incidental charges such as telephone calls, car rental charges, hotel bills, towing etc.
- Defects in or the replacement of products, accessories, and parts which are not supplied by the company.
- Failure resulting from operation of the unit after the owner of the unit knows or has reasonable cause to believe that the unit is defective in any way. It is the direct obligation of the owner of the unit to immediately notify ATR regarding any evidence of unusual operation to the unit.
- Loss of refrigerant gas not caused by a defective part or faulty material.
- Components which have failed due to being submerged in excessive amounts of water or mud. (River crossings, bog holes etc).



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foreword

Congratulations on your purchase of an ATR refrigeration unit. If you maintain it regularly, you can look forward to many years of efficient service from this unit. This handbook is to acquaint you with all aspects of your warranty and maintenance. Please take time to read it as periodic maintenance is required and is essential for trouble-free operation.

warranty registration

ADVANCED TRANSPORT
REFRIGERATION & AIRCONDITIONING
12 ROSBERG ROAD WINGFIELD SA 5013



MODEL	<input type="text"/>	SERIAL #	<input type="text"/>
DATE	<input type="text"/>	BELT SIZE	<input type="text"/>
REFRIGERANT	<input type="text"/>	QTY	<input type="text"/> kgs

The following Warranty Registration Card is to be completed by ATR at date of installation.

This Registration Card must be presented when requesting any Warranty work.

If your Warranty booklet becomes lost, contact ATR for a replacement on (08) 8347 3434.

Quote your serial No # located on the identification plate on the registration unit.

warranty registration card



Date Serial No

Owner's Name

Address Post Code

Kilometres

Vehicle Type

Model

Vehicle Identification No

Compressor Make Model Serial No

ESB Compressor Make Model Serial No

Belt Size ESB Belt Size

Technician

Registration #



instructions - refrigerated units

HINTS & TIPS

The refrigeration system must be used whenever any fresh or frozen product is carried in this vehicle.

Off Engine Drive units will only operate when the vehicle engine is running.

ESB units must be turned off before starting the vehicle's engine.

Remember to check the temperature setting each time you use the unit to ensure you are operating at the correct temperature for the appropriate product you are carrying.

Do not leave the unit switched on with only the vehicle's ignition on (ie; engine not running).

OPERATION


With the engine running, turn on the On/Off switch. After a few seconds the display will show the ACTUAL temperature that the cargo area is currently at.

To display the current temperature setting, press & release the MODE|SET button, showing the desired temperature. If this is your required temperature, no further action is required.

To change the temperature setting, press & release the MODE|SET button, then either push the UP or DOWN button until the desired temperature is reached.

Once the temperature is set, the control box will automatically hold it.

DEFROST

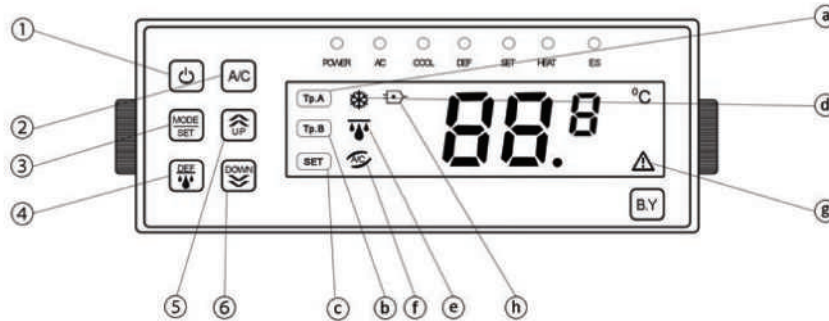
Normally this is an automatic function, however at times it may be necessary to manually defrost the unit. If you notice build up of frost and ice on the coil of the evaporator (located on the inside of the cargo area), press and release the defrost button. The defrost button icon is a square button with a white border. Inside the square, the word 'DEF' is written in a bold, sans-serif font above a downward-pointing arrow.

This will activate an automatic defrost. After defrost, the unit will automatically resume normal operation.

For further troubleshooting contact ATR on (08) 8347 3434.

NOTE: control panels may vary. Please refer to enclosed leaflet for operation of your control panel.

controller display



Tp.A



Indicates internal compartment 1 temperature.

Tp.B



Indicates internal compartment 2 temperature.

SET



Indicates system temperature set point displayed.



Indicates system in cooling mode.



Indicates system in defrost mode.



Indicates spare circuit is on. (optional)



Indicates system fault.









Indicates system ESB mode.



instructions - controller

Functions

-  **1** Power: On/Off Button
-  **2** Spare Circuit: On/Off Button (optional)
-  **3** Mode Set: Parameter Access Button
-  **4** Defrost: Initiate and cancel Defrost Mode Button
-  **5** Up: Increases Parameter Values
-  **6** Down: Decreases Parameter Values

Operation

POWER ON / OFF

The controller has two settings for turning on - Manual Start and Auto Start.

MANUAL START is where you are required to manually push the power button to turn the unit ON or OFF when the ignition key is turned on. To remain in manual mode, you must turn unit off by pressing On/Off button before you turn the ignition key off.

AUTO START is where the system will automatically turn on after the ignition key is turned on. The system will automatically turn off when the ignition is turned off.

ESB MODE

Ignition power is not needed to turn the system on when electricity is connected. The unit will automatically start in auto mode.



controller settings

How to Select Auto or Manual Start

The selection between auto start and manual start is simple. If you turn the ignition off while the refrigeration system is running, the system will restart automatically the next time the ignition is turned on.

If you turn the refrigeration system off manually and then turn the ignition key off, you will then need to manually turn on the refrigeration system the next time you turn the ignition key on.

SETPPOINT

To adjust the temperature set point press and release the MODE|SET button, adjust the temperature displayed on the controller using the up or down keys to the desired temperature required. Press the MODE|SET button when finished.

DEFROST

To initiate defrost press the defrost button and release, the system will automatically return to cooling mode once the defrost parameter time setting has been reached. You are able to cancel the defrost mode early by repressing the defrost button while in defrost mode.

Parameter Settings

DEFROST

Defrost time is the duration of the defrost operation. Defrost intervals are the length of time between two automatic defrosts.

1. To adjust the defrost duration and interval settings press and hold the MODE|SET button for 3 seconds and release.
 2. Set the defrost duration.
t 1.0 = 10 minutes
t 1.5 = 15 minutes
Once set, press and release the MODE|SET button.
 3. Set the defrost intervals.
d 3.0 = 3 hours
d 2.5 = 2.5 hours
Once set, press and release the MODE|SET button.

Factory Settings: t = 1.5 d = 3.0

Parameter Settings

TEMPERATURE DIFFERENTIAL

Temperature differential is the amount of temperature between cycle off and cycle on when set point has been reached.

1. To adjust the temperature differential setting press and hold the MODE|SET button for 5 seconds & release.
2. Set the differential. 2.0 d = 2°C
3.0 d = 3°C
Once set, press and release the MODE|SET button.

Factory setting: 2.0 d

TEMPERATURE CALIBRATION

Temperature calibration setting offers an adjustment offset when the compartment temperature displayed is incorrect compared to the actual temperature.

1. To adjust temperature calibration setting press and hold the MODE|SET button for 7 seconds & release.
2. Set the true calibration offset.
+ or - 9°C offset available.

Factory setting: C0.0



service checklist

1. Check gas level
2. Check condition of compressor oil
3. Check for signs of leakage
4. Check debris from condenser, check mounting and inspect for oil staining
5. Check drain tubes
6. Check condition of hoses and mounting
7. Check belts, pulleys, compressor bracket and bolts
8. Recover gas
9. Recharge system
10. Adjust compressor belt / belts
11. Check operation of compressor and clutch
12. Check operation of condenser fan
13. Check outlet temperature
14. Check operation of thermostat
15. Check operation of HPCO-LPCO switch
16. Replace orifice tube (if applicable)

refrigeration system tips

1. Your refrigeration system has been designed specifically for your make and model of vehicle.
2. The size of all components are carefully calculated to give maximum cooling output without adversely affecting the vehicle's fuel consumption for performance.
3. To maintain the system in good working order and to minimize the loss of refrigerant, the refrigeration unit should be operated for a minimum of five minutes each week regardless of the season. This will assist in preventing the compressor seal from drying out; a condition which can cause loss of refrigerant and possible damage to the compressor.
4. The industry Code of Practice is observed by ATR. As well as, maintaining the necessary equipment and accredited personnel, ATR are constantly upgrading service procedures.



scheduled service record

- All services are chargeable (except for free of charge 3 month service)
- All scheduled services are compulsory for validity of Warranty

SERVICE INSPECTION:		REPORT HISTORY:
FREE of CHARGE 3 month service Compulsory for validity of Warranty	3 MONTHS date / / kms.....	<hr/> <hr/> <hr/>
Bi-annual services Compulsory for validity of 12 month Warranty	6 MONTHS date / / kms.....	<hr/> <hr/> <hr/>
NOTE: all moving parts covered (excluding drive belts)	12 MONTHS date / / kms.....	<hr/> <hr/>

SERVICE INSPECTION:

REPORT HISTORY:

Bi-annual services (6 monthly)

Compulsory for validity of Extended Warranty

NOTE:
for Extended Warranty all moving parts (incl; fans, belts & pulleys) are excluded from "free of charge"

18 MONTHS

date / /

kms.....

24 MONTHS

date / /

kms.....

30 MONTHS

date / /

kms.....

36 MONTHS

date / /

kms.....



ADVANCED TRANSPORT REFRIGERATION & AIR CONDITIONING

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A T R P L U S . C O M . A U